Level 2: SLC 500 and RSLogix 500 Maintenance and Troubleshooting

DESCRIPTION

This skill-building course provides you with the necessary practice needed to interpret, isolate, and diagnose common hardware problems related to noise, power, and discrete and analogue I/O.

WHO SHOULD ATTEND

Individuals who are responsible for troubleshooting and maintaining SLC 500 systems using RSLogix 500 software should attend this course.

COURSE DURATION

4 Days

COURSE CODE

CCPS43

OVERVIEW

This skill-building course provides you with the necessary practice needed to interpret, isolate, and diagnose common hardware problems related to noise, power, and discrete and analogue I/O.

OUTLINE

In troubleshooting scenarios, you will be introduced to basic ladder logic interpretation, which is applied to diagnostic tasks. You will practice these diagnostic skills by tracing through ladder logic instructions in an RSLogix 500 project. An integrated practice of multiple troubleshooting skills completes this training.

- Identifying SLC 500 System Components
- Getting Started with RSLogix 500 Software
- Communicating with a SLC 500 Processor
- Identifying Memory Layout and SLC 500 System Addresses
- Monitoring and Entering Data
- Interpreting Bit Instructions
- Editing Ladder Logic
- Documenting an RSLogix 500 Project
- Searching Ladder Logics
- Interpreting Timer and Counter Instructions
- Integrated Practice: Tracing Through Ladder Logic
- Interpreting Comparison Instructions
- Interpreting Data Handling Instructions
- Interpreting Program Control Instructions
- Configuring and Previewing a Project Report
- Creating a Histogram
- Forcing Inputs and Outputs
- Troubleshooting Noise-Related Problems
- Troubleshooting Processor and Power Supply Problems
- Troubleshooting Discrete I/O Problems

PREREQUISITES

To successfully complete this course, the following prerequisites are required:

- Experience maintaining electrically controlled systems
- Working knowledge of programmable controllers or completion of the PLC-5/SLC 500 and RSLogix Fundamentals (CCP122).
- Experience operating a personal computer within a Microsoft® Windows® 98, Windows 2000, Windows ME, Windows NT or Windows XP environment.